

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

Claim 1 (canceled).

2. (currently amended) ~~An image forming apparatus as claimed in claim 1,~~ An image forming apparatus comprising at least:

a rotary,

a rotary driving motor for rotating the rotary,

a plurality of development units each of which is mounted to said rotary such that the development unit is replaceable at a replacement position and has a development roller for carrying developer-and an input gear, a development unit driving motor for driving said development roller, a development unit driving gear which is disposed outside said rotary such that the development unit driving gear can be selectively meshed with said input gear of one of said plurality of development units and to which the driving force of said development unit driving motor is transmitted, and

a control device for controlling the drive of said rotary driving motor and said development unit driving motor,

wherein:

during the image forming operation, said development rollers of the respective development units are set at the development position relative to a photoreceptor by turns according to the rotation of said rotary and, at the development position, said input gear of each of the respective plurality of development units are meshed with said development unit driving gear so as to drive said development rollers with the driving force of said development unit driving motor by turns, thereby achieving multi-color development,

said image forming apparatus further comprising a rotary driving motor control means which controls said rotary driving motor for the rotation of said rotary during the non-image forming operation such that the rotational speed of said rotary in a contact region where said input gear collides with said development unit driving gear is lower than the rotational speed of said rotary in a region other than said contact region, and

~~wherein~~ the rotational speed of said rotary in the region other than said contact region during the rotation of said rotary in the non-image forming operation is set to be lower than the maximum speed of said rotary rotating during the image forming operation.

3. (currently amended): An image forming apparatus as claimed in claim ~~1~~ or 2, wherein an impact absorbing means for absorbing an impact generated when said input gear collides with said development unit driving gear during the rotation of said rotary in the non-image forming operation is provided on said development unit driving gear side.

4. (currently amended): An image forming apparatus as claimed in ~~claim 1 or~~ claim 2, wherein the rotational speed of said rotary in the region other than said contact region during the rotation of said rotary in the non-image forming operation is set to a first speed corresponding to the rotational speed of the maximum torque (Tmax) of said development unit driving motor and the speed of said rotary when any one of the input gears passes said contact region during the rotation of said rotary in the non-image forming operation is set to a second speed lower than said first speed.

5. (currently amended): An image forming apparatus as claimed in ~~claim 1 or~~ claim 2, wherein the rotation of said rotary during said non-image forming operation is at least one of a group consisting of the rotation of said rotary for setting the development unit to be replaced at said replacement position during the operation of replacing said development unit, the rotation of said rotary for resetting and initializing the phase of said rotary after power-on, the rotation of said rotary for initializing the phase of said rotary after sudden power-down, and the rotation of said rotary for moving to the home position after the final development procedure.

Claim 6-9 (canceled)

10. (canceled). ~~An image forming apparatus as claimed in claim 6 or claim 8, An image forming apparatus comprising:~~

a developing device of a rotary development type having a rotary on which a plurality of development units are mounted, and

a locking means for positioning said rotary in order to selectively set said development units at a predetermined position and for locking the rotary at the predetermined position,  
wherein:

said locking means comprises a lockable position formed on said rotary side, a locking member which is movably disposed on the body of the image forming apparatus and has a locking position where the locking member is engaged with said lockable position to lock said rotary and an evacuation position where the locking member is not engaged with said lockable position, a shifting means for shifting said locking member to said evacuation position, and a biasing means for biasing said locking member to said locking position,

said locking member has a contact portion which can come in contact with said lockable position before the engagement with said lockable position according to the rotation of said rotary,

~~wherein~~

said lockable position is composed of convexities formed on the rotary,

said locking member is a lock lever which is movably disposed to the body of said image forming apparatus, and

said lock lever has a concavity engageable with one of said convexities and has a contact portion with which the convexity comes in contact before engaging said concavity

according to the rotation of said rotary, and side walls of said concavity are each formed in an arc of a circle of which center is equal to the rotational axis of said lock lever.

11. (previously presented): An image forming apparatus as claimed in claim 10, wherein:  
said convexities are disposed corresponding to said development units, respectively, that  
said convexities are positioning convexities for development for positioning said rotary at said  
development position and positioning convexities for replacement for positioning said rotary at  
said replacement position, and

said lock lever has a concavity which can be selectively engaged with one of said  
convexities and has a contact portion with which the convexity comes in contact before engaging  
said concavity according to the rotation of said rotary.

12. (previously presented): An image forming apparatus as claimed in claim 11, wherein  
the interval in the circumferential direction between said positioning convexity for development  
and said positioning convexity for replacement for one development unit is set to be smaller than  
the interval in the circumferential direction between said positioning convexity for replacement  
for said one development unit and the positioning convexity for development for the next  
development unit.

13. (previously presented): An image forming apparatus as claimed in claim 10, wherein:  
the end of said each convexity is formed in an arc shape,

said contact portion is an inclined face with which the arc-shape end of said convexity can come in contact, and

the start point of said inclined face is formed on an arc of a circle of which center is equal to the rotational axis of said rotary and which passes the ends of said convexities, and that, according to the rotation of said rotary, said convexity comes in contact with said inclined face and presses said inclined face before said convexity is engaged with said concavity.

Claim 14 (canceled)